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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/775,476	02/02/2001	Esin Terzioglu	37115/JFO/B600	7751

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EXAMINER

PHAN, TRONG Q

ART UNIT

PAPER NUMBER

2818

DATE MAILED: 05/20/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
09/775,476

Applicant(s)
TERZIOGLU ET AL.

Examiner
TRONG PHAN

Art Unit
2818



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE three MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Feb 2, 2001
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
*See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s). 5 6) ☐ Other:

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Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: data 125 (line 3, page 10); activating word line 205 (lines 8-9 and 15, page 11); tiers Lo, L1 and L2 (pages 28-31); signal M46 (line 28, page 30); decoders M48 and M49 (lines 31 and 34, page 30); Vdd (line 29, page 32; lines 3 and 5, page 33); inputs 1010 and 1011 (line 14, page 34); differential amplifier 1012 (line 14, page 34); DataIn 1013 (line 18, page 34); M162, M190 and M187 (lines 20, 23-25, 28 and 31, page 34); M3, M4, M5, M14, M37, M38, M39, M29, M40 and Co (lines 16-17, 20, 28-31 and 35, page 35; line 2, page 36); fuse box 1410 (line 13, page 38); redundancy circuit 1620 (line 18, page 39); memory cell 1825 and local word line 1810 (lines 24-26 and 33, page 41; line 9, page 42); HPDM circuit 1900 (lines 10-11, 15, 19-20, 24, 27 and 30, page 43; lines 1, 5, 11, 19 and 35, page 44; lines 6 and 33, page 45; line 17, page 46; lines 23, 27 and 33, page 47); reset signal 2170 (line 13, page 50); CVS 2200 (lines 16,-17, 19 and 35, page 50). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: BIT, $\overline{\text{BIT}}$ and WORD in Fig. 1; COLUMN #1, #2, #N-1 and #N in Figs. 3-4; Ccell in Fig. 9; COLUMN PAIR# 1-4 and DECODER #1-4 in Fig. 14; NO CONNECTION in Fig. 15A; SELECTOR DEVICE in Fig. 16; M in Figs. 18 and 21; $\text{del}, 1:6>$, $\text{Ineg}<0:2>$, StartH, RO_div64, $\text{Ipos}<0:2>$ and FEEDBACK in Fig. 19; number 2150 in Fig. 21; MN11 and MN21 in Fig. 22B. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the features as recited in claims 1-17 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1-17 are vague and indefinite for claiming the invention comprising elements which are not read on the drawings. Applicant is required to particularly point out every elements as recited in claims 1-17 to be corresponded with the respective elements as shown in the drawings of the present invention.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

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7. Claims 1-17 are, insofar as understood, rejected under 35 U.S.C. 102(e) as being anticipated by Ooishi, 6,363,030.

Ooishi, 6,363,030, discloses in Fig. 1 a memory system, which can be formed on a single chip (see lines 47-52, column 13) such as memory modules as shown in Figs. 2-3, comprising:

row predecoder 1062 and row decoders 1102, 1112 and 1122;

selector circuit comprising: column predecoder 1064 and column decoders 1104, 1114 and 1124;

bank decoder 1066;

memory array banks 0-7;

as shown in Fig. 19, synchronous portion comprising: transistors TP301 and TN312 receiving clock signal CK; transistors TN302 and TP311 receiving clock signal CKB; asynchronous portion comprising: NAND gates ND11 and ND12 responsive to reset signal RSTB; and feedback-resetting portion ND10.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. .

Parson et al., 6,215,727, Tomita, 5,866,941, Chen et al., 6,278,641, and Uchida, 6,188,641.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TRONG PHAN whose telephone number is (703) 308-4870 and email address is trong.phan@uspto.gov

A handwritten signature in black ink, appearing to read 'phan trong', written in a cursive style.

**TRONG PHAN
PRIMARY EXAMINER**

May 16, 2002